

FIGURE 1

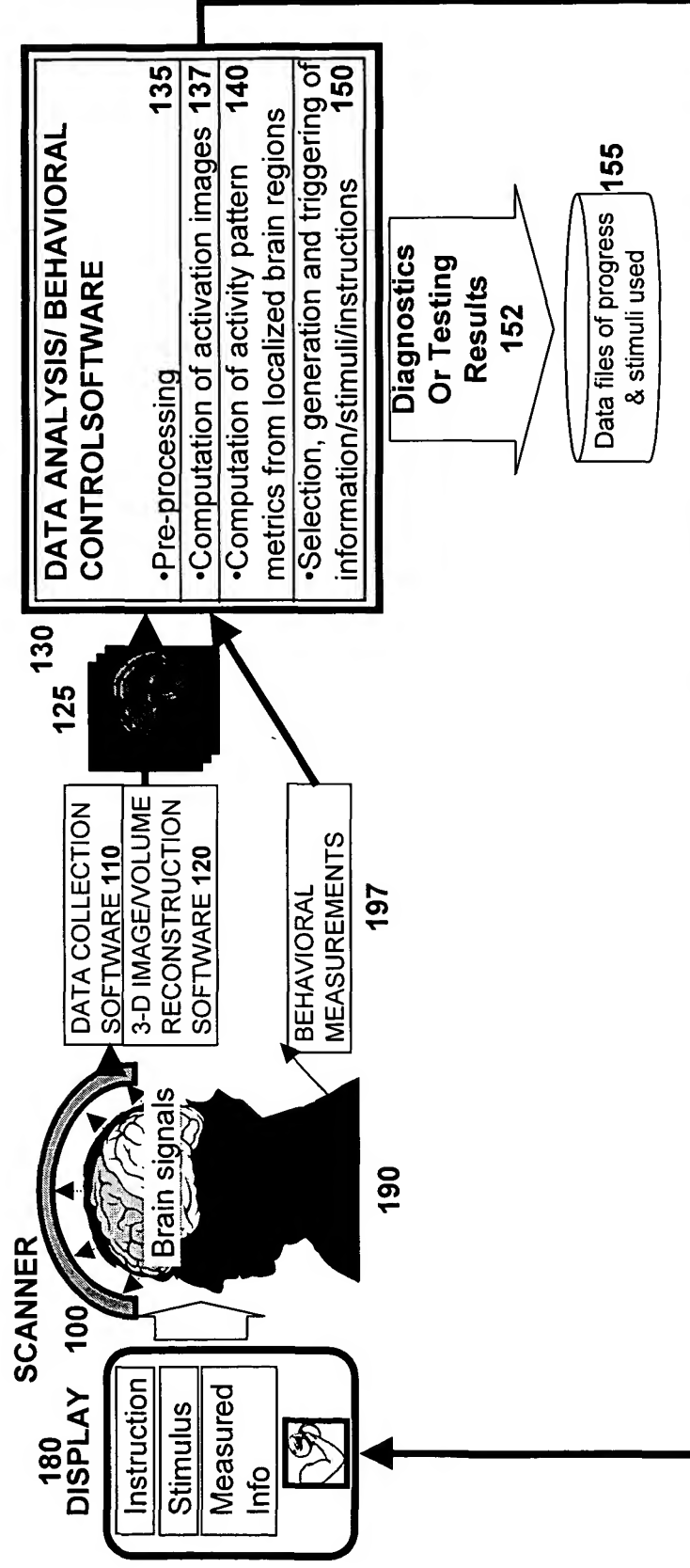
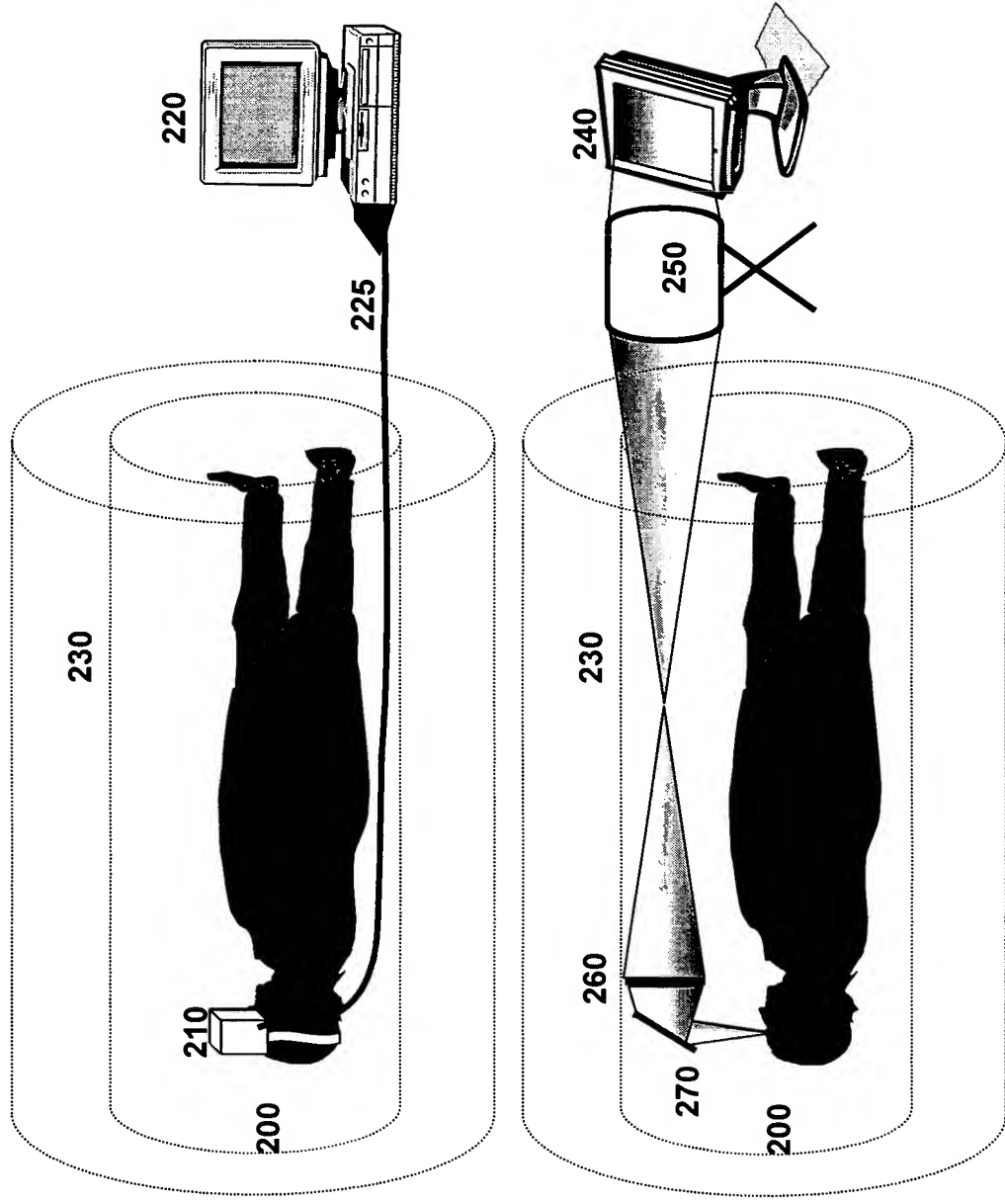


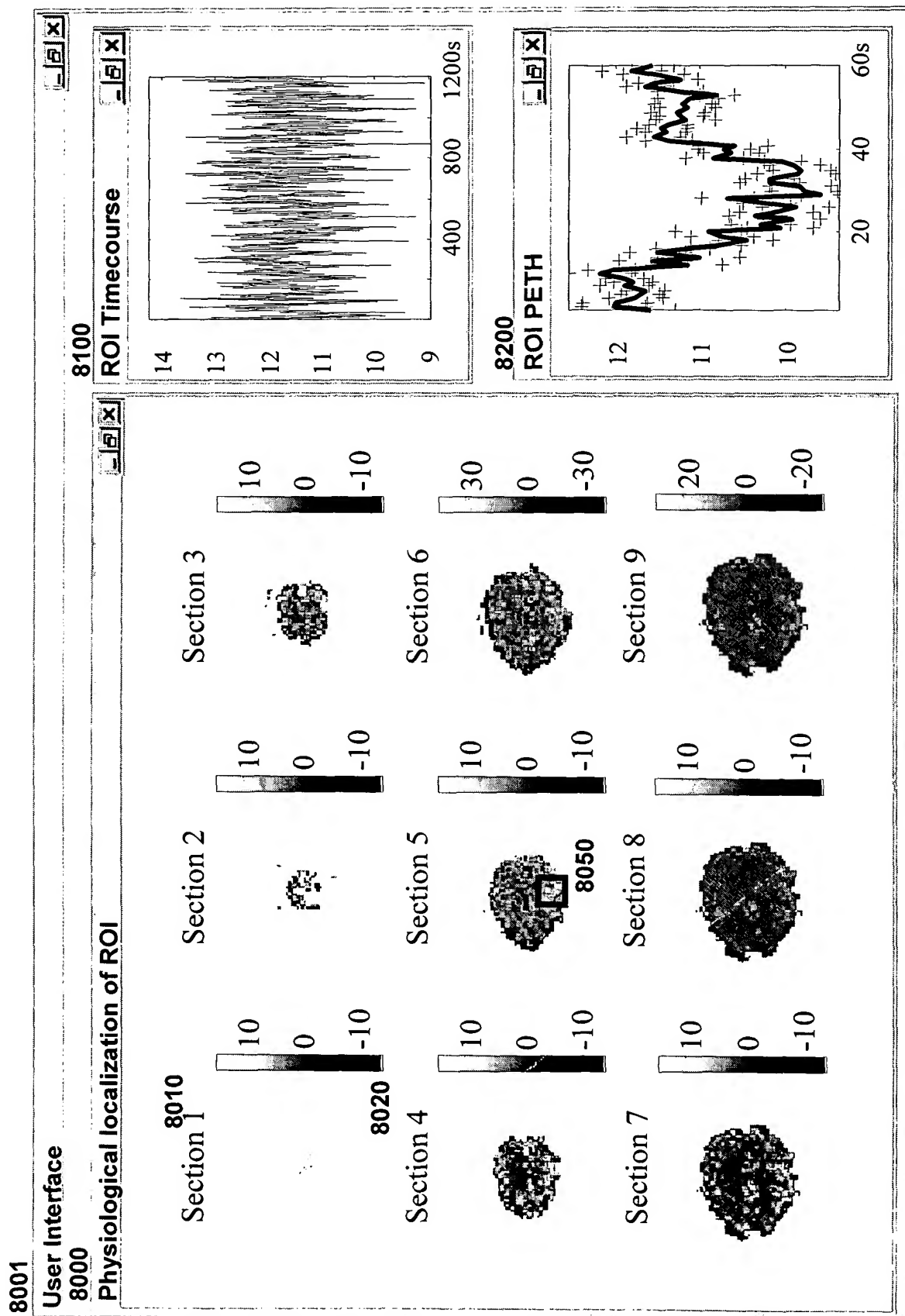
FIGURE 2



# FIGURE 3

Region	Coords.	Condition	Neuro-modulator
subthalamus nucleus	X=+10 Y=-13 Z=-4	PD	-
substantia nigra	X=+10 Y=-17 Z=-8	PD, Schz	DA
thalamus nucleus VA ventro anterior	X=+10 Y=-5 Z=8	PD	-
nucleus accumbens	X=+10 Y=7 Z=-8	SA, Rew, Schz	DA
thalamus nucleus VL ventrolateral	X=+14 Y=-11 Z=8	PD	-
globus pallidus internus	X=+15 Y=-2 Z=-4	PD	-
pulvinar nucleus	X=+15 Y=-27 Z=4	ADD	-
thalamus nucleus VP	X=+17 Y=17 Z=9	Pain	-
locus coeruleus	X=+2 Y=-31 Z=-14	ADD, SA, Rew	NA
globus pallidus externus	X=+20 Y=-2 Z=-4	PD	-
amygdala	X=+22 Y=-5 Z=-12	Pain	-
medial frontal lobe	X=+3 Y=14 Z=40	Pain	-
periaqueductal gray matter	X=0 Y=-26 Z=-12	Pain	opiates
raphe dorsalis	X=+2 Y=-30 Z=-12	Pain	5-HT
nucleus basalis of Meynert	X=+4 Y=1 Z=-12	AD, learning & plasticity	Ach
dorsolateral pre-frontal cortex	X=+28 Y=34 Z=35	Dep	-
anterior pre-frontal cortex	X=+17 Y=64 Z=16	Dep	-
rostral ventromedial medulla	X=2 Y=-28 Z=-28	Pain	opiates
nucleus raphe magnus	X=2 Y=-30 Z=-28	Pain	5-HT, opiate
thalamus nucleus Vim ventrointeromedial	X=+7 Y=-12 Z=4	PD	-
Brodman's areas 4	X=+48 Y=-15 Z=40	Motor impairments	-
Brodman's areas 6	X=59 Y=-9 Z=40	Motor impairments	-
PD - Parkinson's disease; AD - Alzheimer's disease, ADD - attention & attention deficit/attention deficit/hyperactivity disorder, Dep - depression/mood/affect, SA - substance abuse & addiction, Schz - schizophrenia, Rew - reward DA - dopamine, 5-HT - serotonin, Ach - acetyl choline, NA - noradrenaline			

# FIGURE 4



# FIGURE 5

